Collin Jackson

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WORK EXPERIENCE

MobileCoin / *Staff Software Engineer*   2022 – 2023 • *San Francisco, CA*
• Developed a cryptocurrency mobile wallet, moby.app, using Flutter.

Noom / *Staff Software Engineer*   2020 – 2022 • *New York, NY*
• Feature development for an iOS and Android mobile app with an install base of millions.
• Improved team productivity through the introduction of time-related testing abstractions.

Google / *Staff Software Engineer*   2005, 2007, 2008, 2015 – 2020 • *Mountain View, CA*
• Tech lead for FlutterFire, a plugin suite connecting Google's Flutter dev framework to Firebase backends.
• Supported launch of Flutter's first major Firebase customer, Hamilton, with >1M installs.
• Top 500 Stack Overflow contributor, supporting the Flutter community with hundreds of code samples.

Apportable / *Founder and CEO*   2010 – 2015 • *San Francisco, CA*
• Founded and led a 70-person developer tools company.
• Raised $13M in investment from institutional and angel investors.
• Steered the company through acquisition by Google.

Carnegie Mellon University / *Assistant Research Professor*   2009 – 2012 • *Moffett Field, CA & Pittsburgh, PA*
• Led research to improve browser security while supervising Ph.D. and masters students.
• Co-inventor of HTTP Strict Transport Security (HSTS), a widely deployed web security standard.

Betable / *Frontend Engineer*   2008 – 2010 • *San Francisco, CA*
• Implemented web front-end for an early-stage startup using Ruby on Rails and AWS.
• Used semantic HTML, CSS, and JavaScript to develop a maintainable, cross-browser web application.
• Evangelized agile technical process including continuous integration and peer code reviews.

Cooliris / *Software Engineering Consultant*   2006 – 2010 • *Palo Alto, CA*
• Added 3D media viewer support for Firefox and Google Chrome. Company was acquired by Yahoo!

Department of Homeland Security / *Privacy Technology Analyst Intern*   2005 • *Alexandria, VA*
• Contributed to internal guidelines for adding more privacy protections to government technology.

Center for Democracy and Technology / *Security Research Consultant*   2004 – 2005 • *Washington, DC*
• Investigated fraudulent websites and malicious software, compiling evidence for lawsuits.

Wizards of the Coast / *Web Application Developer Consultant*   2004 – 2008 • *Renton, WA*
• Designed, developed, and maintained community-oriented public web applications.

EDUCATION

Ph.D., Computer Science, Stanford University (2009) GPA: 4.0
Dissertation: *Improving Browser Security Policies*

M.S., Computer Science, Stanford University (2008) GPA: 4.0

B.S., *summa cum laude,* Yale University (2004) GPA: 3.98
with distinction in the Computer Science major and the Mathematics and Philosophy majo**r**

TEACHING

- Browser Security (2010, 2011) — *Instructor, CMU 96834*
- Web Application Security and Privacy (2010, 2011) — *Instructor, CMU 96831*
- Web Programming and Security (2009) — *Co-Instructor, Stanford CS142*
- Computer and Network Security (2007, 2008) — *Teaching Assistant, Stanford CS155*

AWARDS

- Mozilla Security Award (2008, 2009, 2010)
- Computerworld Horizon Award for Cutting Edge Technologies (2006)
- National Science Foundation Graduate Research Fellowship (2004 – 2007)
- Yale University Undergraduate Prize in Computer Science (2004)

PATENTS

- Browser system and method for warning users of potentially fraudulent websites (Google)
- Secure cross-domain communication for web mashups (Microsoft)
- Protection and communication abstractions for web browsers (Microsoft)

SELECTED RESEARCH

- Emily Stark, Lin-Shung Huang, Dinesh Israni, Collin Jackson, and Dan Boneh. The case for prefetching and prevalidating TLS server certificates. In Proc of the 19th Network & Distributed System Security Symposium (NDSS 2012).
- Eric Y. Chen, Jason Bau, Charles Reis, Adam Barth, and Collin Jackson. App Isolation: Get the Security of Multiple Browsers with Just One. In Proc of the 18th ACM Conference on Computer and Communications Security (CCS 2011).
- Zack Weinberg, Eric Chen, Pavithra Ramesh Jayaraman, and Collin Jackson. I Still Know What You Visited Last Summer: Leaking browsing history via user interaction and side channel attacks. In Proc. of the IEEE Security and Privacy Symposium *(Oakland 2011)*.
- Lin-Shung Huang, Zack Weinberg, Chris Evans, Collin Jackson. Protecting Browsers from Cross-Origin CSS Attacks. In *Proceedings of the 17th ACM Conference on Computer and Communications Security (CCS 2010)*.
- Gaurav Aggarwal, Elie Bursztein, Dan Boneh, and Collin Jackson. An Analysis of Private Browsing Modes in Modern Browsers. In *Proceedings of the 19th USENIX Security Symposium. (USENIX Security 2010)*.
- Daniel Bates, Adam Barth, and Collin Jackson. Regular Expressions Considered Harmful in Client-Side XSS Filters. In *Proceedings of the 19th International World Wide Web Conference. (WWW 2010)*.
- Adam Barth, Collin Jackson, and John C. Mitchell. Securing Browser Frame Communication. In *Communications of the ACM (CACM 2009)*.
- Collin Jackson, Adam Barth, Andrew Bortz, Weidong Shao and Dan Boneh. Protecting Browsers from DNS Rebinding Attacks. In *ACM Transactions on the Web (TWEB 2009)*.
- Adam Barth, Collin Jackson, and John C. Mitchell. Robust Defenses for Cross-Site Request Forgery. In *Proceedings of the 15th ACM Conference on Computer and Communications Security (CCS 2008)*.
- Adam Barth, Collin Jackson, and John C. Mitchell. Securing Browser Frame Communication. In *Proceedings of the 17th USENIX Security Symposium (USENIX Security 2008)*.
- Collin Jackson and Adam Barth. ForceHTTPS Cookies: A Defense Against Eavesdropping and Pharming. In *Proceedings of the 17th International World Wide Web Conference (WWW 2008)*.
- Helen J. Wang, Xiaofeng Fan, Jon Howell, and Collin Jackson. Protection and Communication Abstractions for Web Browsers in MashupOS. *In Proceedings of the 21st ACM Symposium on Operating Systems Principles (SOSP 2007)*.
- Collin Jackson, Adam Barth, Andrew Bortz, Weidong Shao, and Dan Boneh. Protecting Browsers from DNS Rebinding Attacks. In *Proceedings of the 14th ACM Conference on Computer and Communications Security (CCS 2007)*
- Collin Jackson and Helen J. Wang. Subspace: Secure Cross-Domain Communication for Web Mashups. In *Proceedings of the 16th International World Wide Web Conference (WWW 2007)*.
- Collin Jackson, Andrew Bortz, Dan Boneh, and John C. Mitchell. Protecting Browser State from Web Privacy Attacks. In *Proceedings of the 15th International World Wide Web Conference (WWW 2006)*.
- Blake Ross, Collin Jackson, Nick Miyake, Dan Boneh, and John C. Mitchell. Stronger Password Authentication Using Browser Extensions. In *Proceedings of the 14th USENIX Security Symposium (USENIX Security 2005)*.